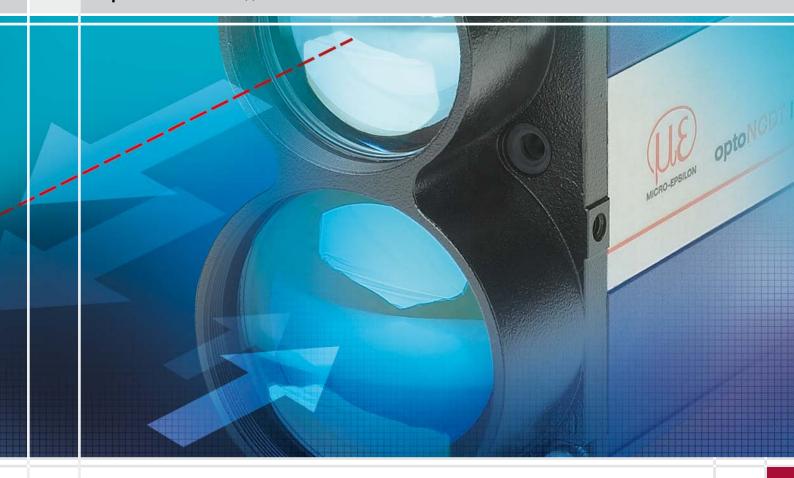


More Precision

optoNCDT ILR // Laser distance sensors

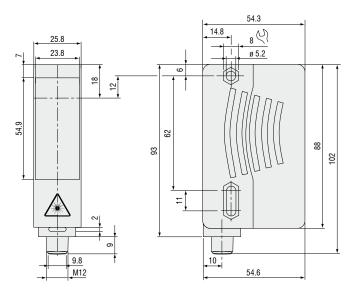


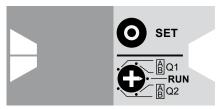
4



- Measuring range up to 15m on diffuse reflecting targets/50m on reflector
- Very short response time
- Small size
- Excellent price-performance ratio

The laser distance sensors ILR1030/1031 operate according to the time-of-flight technology. Thanks to this technology the sensors permanently offer – independent of environmental conditions such as surface characteristics, dark colour or present external light – accurate, reliable and clear as well as reproducible measurement results.





ILR103x: Analogue output and limit output programming via touch keys

Model		ILR1030-8	ILR 1030-8/LC1	ILR 1030-15	ILR1031-50	ILR1031-50/LC1	
Measuring range ¹⁾	black 10%	0.2 2.5m	0.2 2.5m	0.2 5m	-	-	
	grey 18%	0.2 3.5m	0.2 3.5m	0.2 6m	-	-	
	white 90%	0.2 8m	0.2 8m	0.2 15m	-	-	
	reflector	-	-	-	0.2 50m (ILR-RF250/ILR-RF70)		
Linearity 2)		±20mm					
Resolution		1mm					
Repeat accuracy		<5mm					
Response time				10ms			
Laser class	meas. laser red 660nm	class 2	class 1	class 2	class 2	class 1	
Permissable ambient light		50,000lx					
Operation temperature 3)		-30° +50°C (humidity 5 - 95%, no condensation)					
Storage temperature		-30° +70°C					
Limit outputs		Q1/Q2 push-pull outputs					
Switching voltage		max. 30VDC					
Switching current		max. 100mA					
Analogue output		4 20mA, short-circuit/overload protected					
Temperature stability		≤0.25mm/°C					
Supply		10 - 30VDC, class 2					
Connection		connector M12x1, 4-pin					
Protection class		IP 65					
Material	housing	Plastic ABS					
	window	Plastic pane					
Weight		90g					
Accessoires		page 14 - 15					

¹⁾ depending on target reflectivity, stray light effects and atmospheric conditions



optoNCDT ILR 103x-LC1 use a semiconductor class 1 laser. With this laser class no protection is needed.



optoNCDT ILR 1030/1031 operate with a wavelength of 660nm (visible, red). The maximum optical output is ≤ 1 mW. The sensors are classified in Laser Class 2. Class 2 lasers are not notifiable and a laser protection officer is not required either.

Spot diameter ILR 1030 / 1031

	ø10mm	ø15mm	ø50mm
	8m	15m	50m

with statistical spread of 95% when crossing 0°C an additional heating may be required

High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



2D/3D profile sensors (laser scanner)



Optical micrometers, fibre optic sensors and fibre optics



Colour recognition sensors, LED analyzers and colour online spectrometer



Measurement and inspection systems

